202

B. INTERMEDIATE FILE (AFTER GENERALIZATION)

```
<group displayname='Specialty">
  <attributes>
    <class value="10,20,30"/>
    <sequential value="sequential"/>
    <align value="left"/>
    <name value="Specialty"/>
  </attributes>
  <atomic displayname="Automotive " xhtmlsourceid="131">
    <content>
      <contentitem displayname="Content Item" id="1" sourceid="131"/>
    </content>
    <attributes>
      <class value="10,20,30"/>
      <align value="left"/>
      <name enumerate="enumerate" value="Automotive "/>
    </attributes>
    <xhtmlpath generalized="true">
      <pathelement order="-1" type="a"/>
    </xhtmlpath>
  </atomic>
  <xhtmlpath>
    <pathelement axis="descendant::" order="-1" predicate="child::a and
                                              child::font"type="b"/>
  </xhtmlpath>
</group>
```

B₂   B₂

FIG. 10B₁

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B₁   B₁

```
<group displayname="Categories">
  <attributes>
    <class value="10,20,30"/>
    <sequential value="sequential"/>
    <align value="left"/>
    <name value="Categories"/>
  </attributes>
  <atomic displayname="Antiques and Art " xhtmlsourceid="158">
    <content>
      <contentitem displayname="Content Item" id="1" sourceid="158"/>
    </content>
    <attributes>
      <class value="10,20,30"/>
      <align value="left"/>
      <name enumerate="enumerate" value="Antiques and Art "/>
    </attributes>
    <xhtmlpath generalized="true">
      <pathelement order="-1" type="a"/>
    </xhtmlpath>
  </atomic>
  <xhtmlpath>
    <pathelement axis="descendant::" order="-1" predicate="child::a and
      </xhtmlpath>                              child::img" type="b"/>
    </group>
    <xhtmlpath>
      <pathelement order="1" type="body"/>
    </xhtmlpath>
  </group>
  <xhtmlpath>
    <pathelement order="-1" predicate=" ancestor::document[@page='1']
    </xhtmlpath>                    or not(ancestor::document)" type="html"/>
</arml>
```

FIG. 10B₂

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The relevant portion of the final XSL Stylesheet generated as a result of the generalization as depicted in the example of Case-2 is given below.

c) Final Stylesheet

```
<xsl:template match="body" mode="Body">
  <group class="10,20,30" name="Body" sequential="sequential">
    <xsl:apply-templates select="descendant::b[child::a and child::font]" mode="Specialty"/>
    <xsl:apply-templates select="descendant::b[child::a and child::img]" mode="Categories"/>
  </group>
</xsl:template>

<xsl:template match="b" mode="Specialty">
  <group class="10,20,30" sequential="sequential" align="left" name="Specialty">
    <xsl:apply-templates select="a" mode="Automotive~"/>
  </group>
</xsl:template>

<xsl:template match="b" mode="Categories">
  <group class="10,20,30" sequential="sequential" align="left" name="Categories">
    <xsl:apply-templates select="a" mode="Antiques~and~Art~"/>
  </group>
</xsl:template>

<xsl:template match="a" mode="Automotive~">
  <atomic class="10,20,30" align="left" name="Automotive">
    <a href="{./@href}">
      <xsl:value-of select="normalize-space(.)"/>
    </a>
  </atomic>
</xsl:template>

<xsl:template match="a" mode="Antiques~and~Art~">
  <atomic class="10,20,30" align="left" name="Antiques and Art ">
    <a href="{./@href}">
      <xsl:value-of select="normalize-space(.)"/>
    </a>
  </atomic>
</xsl:template>
```

FIG. 10C